

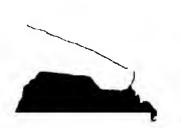
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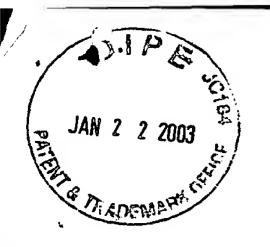
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TECH CENTER 1600/2900

54 .TG	8 5	2 4	9 5	0 U	44 (D)	∞ τ)
5 A M	108 GGG G	162 GAA E	216 GAG E	270 GAC D	324 CCG P	378 GTC V
54 CCG GCC ATG	GCG	CTG	GAA	9 9	TGC	GCC
	CTG	9 9	TGG	GAC	GTG V	TCC
45 GCC	99 CAC H	153 CTG L	207 GAC D	261 GGC G	315 CGC R	369 CCG P
CGC TCT	GCG	GCA	GAG	GGA	GCG	CTG
၁၅၁	GCT	ACT	CTG L	CCC	CCA	GCC
36 GGA	90 GTC V	144 GCG A	198 GCC A	252 CAC H	306 GGG G	360 TGG W
CTC	GTC V	ATG	CCA	GAC	TAC	GAC D
TCC	TGT	CCA	TCA	GTG V	TAC	ACG
27 ACC	81 CTC L	135 GAG E	189 CCC P	243 AAC N	297 TTC F	351 ACC T
550	TGT	GAG	CAG	TTC	CGC R	CGC R
သဗ	CTC	ACC	3 3 9	TGG W	ATC	GCG A
18 GGA	72 CTG L	126 CCC P	180 ACC T	234 TCC S	288 GCC A	342 GAG E
ວອວ	CCA	ACC	TAC	ACG	GCT	CTG
၁၅၁	CTG	GCC	GTG V	TGG W	CTG	GCG
CGA GCA CGC CGC GGA	63 CTG L	117 GAC D	171 TCC S	225 GAG E	279 AGC S	333 CTG L
CGA	TCG	CGA R	CGG R	AGC	GAG	CCG
SCC	GCG	GCC	AGA R	GCC	TTC	CGA R
2 -						







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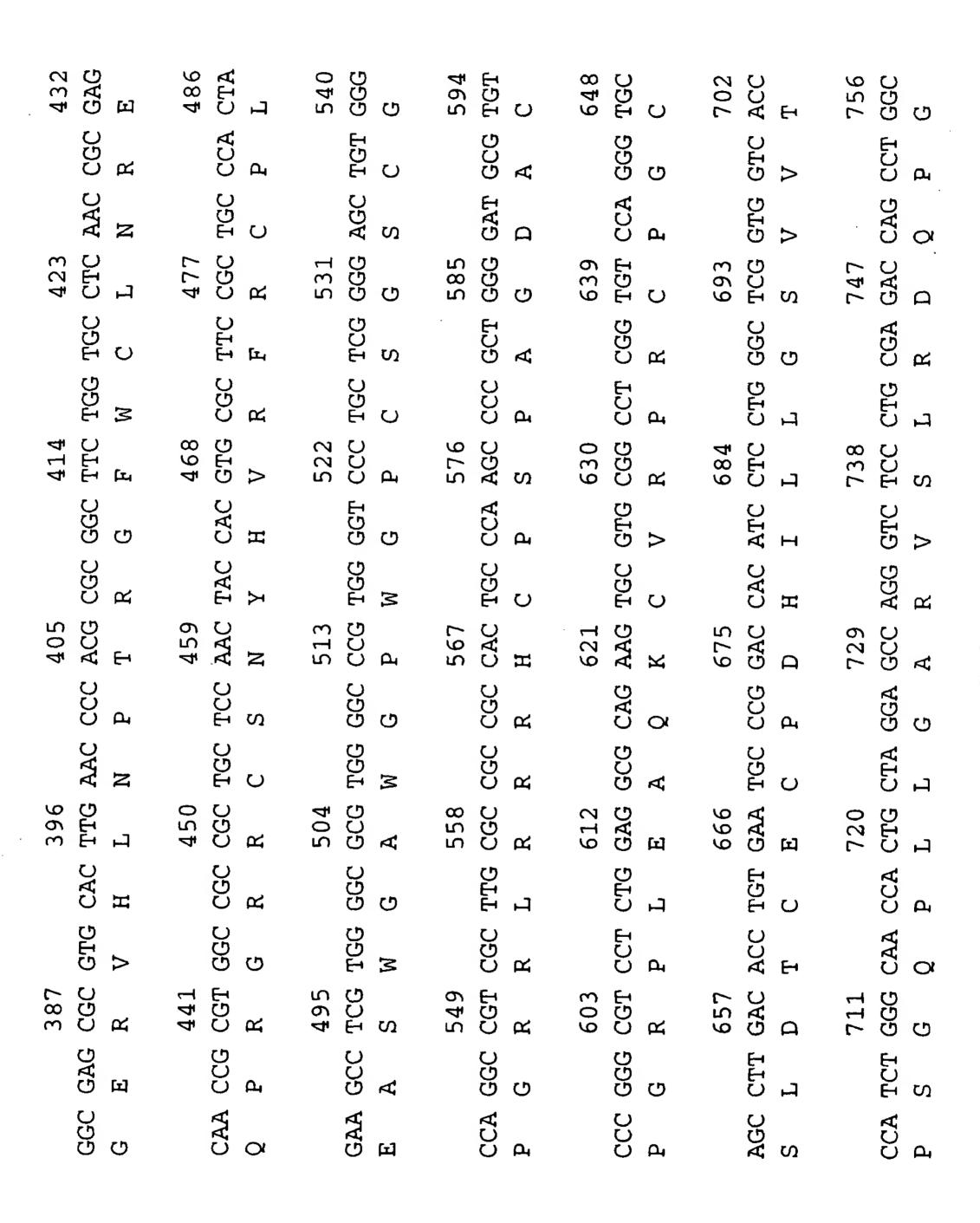


FIGURE 1E

Docket No.: PF-0420-2 DIV
Inventors: Magna et al.
Title: HUMAN NUCLEOTIDE PYROPHOSPHOHYDROLASE-2
Serial No.: 09/757,716

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810 GCT	Æ	864 GCC A	918 TTG L	972 CAG Q	1026 TCC S	1080 CAC H	1134 GCA A
		GAG		3 3 9	TAC Y	1080 GCC CAC A H	1134 AAG GCA K A
GTC TGT		ტ ტ ტ	GAT	GCT GGC A G	AAA K		TGC
801 GGT		855 GCA A	909 CTT L	963 GAG E	1017 CCC AAG 7 P K 1	1062 1071 CGA GCT CAT GGG TAC GGG R A H G Y G	1125 ATC TAC CAC I Y H
GTG CCT	വ	TCT	ATC	CGA R	CCC	GGG G	TAC Y
	>	TTC	ATC	GTG V	ATG	CAT	ATC
792 CGG	œ	846 GGC G	900 ACC T	954 CGA R	1008 CCC P	1062 GCT A	1116 GGC G
TTC		GAT	GTC	TCC	ACC	CGA R	1116 GCT GGC A G
ACC	E→	ATG M	GTG V	GAG E	999	AGG R	CAG Q
783 GGA		837 CAG Q	891 TCT S	945 CCT P	999 TCC S	1053 GAC D	1107 GAC D
CAC	H	GCC	ATC	CAC H	GCC	1053 CTG GAC L D	1107 CCA GAC P D
GCT		AGG R	TCC	AAA K	AAA K	CTG	CGC R
774 GAT		828 ATC I	882 GGA G	936 GTG V	990 TGC C	1044 ACC T	1098 CTG L
AGC	S	AAC N	AAC	CTG	TGC	1044 GGG ACC G T	1098 GGA CTG G L
ACC	E	GCC	GCC	TAC Y	TTC	AAT N	CGG R
765 GCC	Æ	819 CGC R	873 CAG Q	927 CCG P	981 ACT T	1035 CAC H	1089 CTS L
GTG	>	AGC	GCC	AAG K	GTG V	TTC	1 GAG E
ACT	H	GAC	CAG Q	GAG E	AAT	TGG W	CTG

FIGURE 1C



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ω <i>τ</i>)	Δ1 E -	10.5		_		
1188 GCC A	1242 CTC CCT L P	1296 TGT C	1350 GCC A	1395 ATT CAC TGC CCT I H C P	1458 CTG L	1512 CCG P
GTA CTT V L	CTC	CTC	GAC	TGC	TGT	GAG E
GTA V	AAG K	299 9		CAC	AAG K	666 6
1179 ACT T	1233 ATC I	1287 GTG V	1341 TGC C	1395 ATT I	1449 CAG	1503 TCC S
CGG CTC R L	1233 CTG ATC L I	1 GAT D	CGC R	1 GAG E	1449 TGC CAG AAG TGT CTG C Q K C L	1 GAC '
CGG R	TAC	1287 CTG GAT GTG GGC CTC TGT L D V G L C	CCC CGC TGC GGG GAC P R C G D	AGG	0 0 0 0	GCT (
1170 ' GCC A	1224 GAG E	1278 C TAC Y	1332 AGC S	1386 AGA AGG GAG R E		1494 GCT (
1170 ACT GCC T A	CGA R	1 GCC A	TCC S	1 GAG	1440 GAG TGT E C	1494 1503 1512 GTG GCT GAC TCC GGG GAG CCG V A A D S G E P
9 9	CCC	CCT	၁၅၅	CTG	GCA (GTT (
1161 GTG CGC TCG V R S	1215 CGG R	1269 GGC G				1485 CGT (
CGC	CCC	1 AGT S	1323 CTG GCA L A	1 CGC R	1 GTG	3 J
GTG V	GAC	1260 CAG CCA GGT AGT GGC Q P G S G	AGC	1377 GTG CGC CGT V R R	1431 AAG GTG GTG K V V	1485 CGG GGC CGT R G R
	1206 TGC C	1260 CCA P				1476 GTC (
GGT	1206 GCC TGC A C	CAG Q	1314 TGC CCC C P	1368 TGC TCT C S	1422 CCA GTG P V	CTG (
GCG	CCA	GGT	CGC R	TGC C	CTC	
1143 GAG E	1197 CAG Q		1305 ACC T	1359 CGC R	1413 GTC V	1467 ' CGG (R (
AAT N	1197 GGC CAG G Q	1251 GAC TGT D C	1 GAC D	TCC (S	1. TAC (1467 1476 CCC CCT CGG GGG CTG GTC P R G L V
TGG W	CCA	GAG	CCC	AGC 3	399 9	
				•		9 H

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Docket No.: PF-0420-2 DIV Inventors: Magna et al. Title: HUMAN NUCLEOTIDE PYROPHOSPHOHYDROLASE-2 Serial No.: 09/757,716

1566 TAC ACT GAT 1674 1728 CCG GAT 1782 1836 GAC 1890 CGA Д Д О 召 CCC GTG LLL GCC GAA GCC CCC H K 冝 Д ACC GTG CCT AAA CTG AGA GAC Д Н X α TTC CTG 1557 TTG 1611 1665 AAG GAG 1719 CGC 1773 GTG 1827 1881 Ц [Ŧ × 闰 CGC CGG GTC CGG GGC TTC G 民 > K G Ы ATC CAG CGG ATG CTG GCT ACG Ø 召 \vdash Σ П CCC1548 ACC GTC 1602 GCC 1656 CCC 1710 1764 1818 GGC GTG 1872 \mathcal{Q} GAG TCC GCT AAG ATC TCT SSS 团 S Ø × S K CAG CCC GAC GTC ACG CCT CCC Ø Д Д K GGCCCG 1539 1593 ATG GAG 1647 1755 AAC CTG 1701 1809 GAG 1863 Ç $\mathbf{\Sigma}$ 口 Z [1] TTC CAC AGC GTC GTG 耳 [I S CTG GAG GAG TAC CAG CTG CCT 臼 回 Ø \Box 1692 GGC GTG 1746 CAT ACC AGC GCC AGG ATT TCG GGG 1800 GGC GAG TTT ACC ATT AGC GGT 0 ゼ ∞ 1854 158 > ß Н G 田 ß Ö G CCC GCC TAC CTGവ Ø Ø H CTA CGC TTC CAG GGC GAC TTT GTG GAC 1575 CCT CGA GGT GTC ATT TTA 1521 1629 GGC AAA CCC 1683 GAG GCG CCC 1737 1791 1845 Д _ග Д Ы > ტ 又

Docket No.: PF-0420-2 DIV Inventors: Magna et al. Title: HUMAN NUCLEOTIDE PYROPHOSPHOHYDROLASE-2 Serial No.: 09/757,716

1944 GAC 1998 GCG 2106 2052 GCC AAC TCG 2214 160 ATC Ø Z S AGC CGT CTG TCC GAG GC S K K \Box S 国 GAC CTC GTG TCG GGG GTG О 口 > S Ç > GTG GAC 1935 CGG 1989 TGG 2043 2097 GAG 2205 AAC 2151 Ω 召 3 口 Z GTG GTG CTG CGC GGC > 口 K Ω CGC TCC GCC AAG CGG GTG 召 S Ø × α > 1926 CTGTTC 1980 GTG 2034 CTC 2088 TIC 2142 2196 CTG > П Ŀ GAC ATG SCG SCC 999 Σ Д A Ç ĹΤι AGT 399 9999 GAG AGC GTC G S G 团 S CCC 1917 TAC 1971 GTG GTG 2025 2079 GAG CGC 2133 2187 Д > 闰 329ACC CAG CAC GAG GAG K Ø 耳 口 TCT CGC CTG GAG 999 GAG S 召 Ы Ç 臼 日 1908 TCG GCG GCG 1962 CCA CTG 2016 GAG CAG CCA P 2070 ${
m TGG}$ CGG R 2124 2178 Ø ATG TTGCGC Ø Д 回 Σ 24 GCG GTGCAC GGC Ŋ Ø Ø G 出 GAC CTC ACC D L T GGC TCC G S CAG ATC Q I GAG ACC E T GAG CTG 1899 1953 2007 550 DDD 2115 2061 曰 GGC CCC AGC CCC GGC ෆ Д Ŋ ტ

FIGURE 1F

GTG

TTC

TGC

CGC

CGC

CGC

GAG

CCT

GTG

GAC

CTG

AAT

CTG TTC

CGC

GAG CGG

CGG

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Docket No.: PF-0420-2 DIV Inventors: Magna et al. Title: HUMAN NUCLEOTIDE PYROPHOSPHOHYDROLASE-2 Serial No.: 09/757,716

ACG

CGG

CGT

TAC

999

CTG

AGG

GAC

CTG

TAC

CCC

CAG

2556 GTC ACC

299

GCC ACC GTG

2547

G

2565

Д

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Д

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2574

2583

K

民

G

2646

AAG

SCC

CTC

AAC

ATC

CGC

TTC

GGC

AAC

CGT

AAG

TTC

GAT CCC GCC

GAC CAC GAC

Д

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GGC G GAG 口 GTG > CAG 2313 Ø GAG 团 AGC S CCC 2304 ACC H TTC ഥ AAG 2295 GAC \Box AAC Z GCC TAC GCC 9 AAG GTG CGC

2376 CCC 2430 CTC 2484 GCC 2538 CCG AAC TGC ACC Z Ö GCC GCC GTC CCA K Ø > Д $^{\mathrm{TCC}}$ 2367 GGC 2421 CTG2475 CGC 2529 S G П 区 AAT GCC CCC Ŀ Z K GGC CCC ACC TTG C Д Ы CCC 2358 ggC2412 TAC \mathbf{I}^{CC} 2466 2520 Ç S GCC ACC GCC CCT Ø K Д CCC GTC GAC CCC Q, > K GAG 2349 GCG 2403 CCA CCG 2457 2511 闰 K Д CTG AGC AGG GAG Н S K 曰 AAT GAC GAC CIG Z Q GAC GCC D A ACG CTG GTC 2502 GAG GAG 0 CGC TTT 2394 2448 臼 П 回 CGC \mathbf{TGC} GGC ပ G ტ GTG GTG GTC V V V CGT GCC TGG R CCC GCC TTC 2331 2385 ACC CTG GGC 2439 2493 ტ

FIGURE 1G

Docket No.: PF-0420-2 DIV Inventors: Magna et al. Title: HUMAN NUCLEOTIDE PYROPHOSPHOHYDROLASE-2 Serial No.: 09/757,716

2700	TGG CGC AGC	ഗ	2754	AGG	ద	2808	CCT	Д	2862	CGG	ద	2916	TCC	ഗ	2970		ĸ	3024	GTG	>
	CGC	K		GCC	Ą		ACA	₽		TTC	ᅜ		CGC	民		CTT	니	(*)	CC CC	ပ
		B		TTC	ĮΤι		GGC	ტ		GAG	臼		GTC	>		GGA	ტ		CCC	Æ
2691	SSS	Д	2745	CGC	ĸ	2799	CGA GAG	田	2853	CCG CAG	Q	2907	ATG	Σ	2961	TAC	>	3015	TCG GCA	æ
	TAC	⋈		TTC	ĮΉ	•	CGA	~	•	CCG	д		\mathtt{TAT}	>		CTC TAC	1	(*)	TCG	ഗ
	GTG	>		CAC	н		TTC	ᅜ		AAC	z		GAG	臼		CAG	Ø		ACC	E
2682	CCT	വ	2736	AGC	Ŋ	2790	CCC	д	2844	CCC	д	2898	CAG	Ø	2952	ggC	ტ	3006	၁၅၅	r D
• •	999	G	•	CCC	Ą	•	GTC	>		TGG	3	.,	၁၁၁	വ	(4	CGC	ద	(7)	900	വ
	AAT	z		ACT	E		GTG	>		TGG	M		GGT	ტ		ACC	H		CGT	K
2673	\mathfrak{GCC}	Ą	2727	CCG GTG	>	2781	AAC	z	2835	CCC	Ą	2889	CAG	Q	2943	CGC	24	2997	GAG	ш
	GCC GAG GCC	阳			д	•	TAC	>		CTG	ы		ATC	н	.,	CCA CGC	Д		၁၁၁	4
	225	Æ		CCC	Æ		GAG	田		CTC	ļ		AAG	×		CAC	н		GAC	Ω
2664	GAC CCC	д	2718	CAG GGG	Ŋ	2772	AAG TAC	>	2826	GAT	Ω	2880	GTG	>	2934	AGC	ß	2988	CGA	ĸ
		Д		CAG	Ø	•	AAG	×	•	ggc	ტ	.,	AAG	X		GGC	Ŋ	(4	GTG CGA	>
	GGT	ტ		TGC	O		GAC	Д		ACT	₽		CTC	H		GGG	Ŋ		AGT	လ
2655	CCA	Д	2709	GAA	田	2763	BOB	Ą	2817	TGG	M	2871	TTC	ഥ	2925	GCA	Ø	2979	550	民
	AGG			CGG			GAG	ы		$_{ m TCC}$	ß	•	TGC	ပ		AAC	z		၁၁၅	Ą
	၁၁၁	Д		CTG	ij		GTG	>		\mathcal{CC}	Ą		೦೦೮	Ą		CAC	Ħ		GAT	Ω

FIGURE 1H

Docket No.: PF-0420-2 DIV Inventors: Magna et al. Title: HUMAN NUCLEOTIDE PYROPHOSPHOHYDROLASE-2

Serial No.: 09/757,716

3078 AGG ACG CTG R T L	3132 C CTT L	3186 T GCC A	3240 C ACT T	3294 TGC TTT C F	3348 A GCC A	3402 TTC CAG AGG F Q R
AC T	CTC	G A	TA Y	7G C	ACA	CA
	GGA	CCA GCT	GTC TAC V Y	CGC R	9 9	TTC
3069 CAG CGG CAG GTG GAC Q R Q V D	3123 GTC AAC V N	3177 CCC GCG GAG GAC P A E D	3231 AAC TAT GGC N Y G	3285 GCC ATT GGC A I G	3339 GAT GCC D A	3393 CTC L
GTG V	GTC	GAG	TAT Y	ATT I	GAT D	AGC
CAG Q	GCC	GCG	AAC	GCC	GCT	CCC AGC
3060 CGG R	3114 GTG V	3168 CCC P	3222 CAC H	3276 ATC I	3330 ATG AAG M K	3384 GGA CGA G R
CAG Q	CGC R	GTG V	3 0 0	GAG E	3 ATG M	GGA G
GAC	CGG R	CCG	CTG	AAG K	GAG E	GCC
3051 CTG TTC L F	3105 TGC C	3159 CCA P	3213 CCT P	3267 GCC A	3321 AGA R	3375 . CCG . P
	AGC	CCC P	GAC	TTG	3321 TCC AGA S R	CCA P
ATG	9 9 9	CAC	CTA	CGC	TTC	GAG
3042 GGG G	3096 CAG Q	3150 CGG R	3204 CCC P	3258 CCA P	3312 GGY G	3366 CGG R
3042 AGC GGG S G	CCC	ACC	GCC A	AGC S	GAC D	TGC C
TGC	ATG	CTG	CTG	CAG	TCT	CAG Q
3033 AAG K	3087 ATT I	3141 TAC Y	3195 ATG M	3249 GAC D	3303 TCC S	3357 TTC F
TTC	ACC	GAT	TCC	ACT	GGT	ACC
GAG TTC E F	GTG	CGG R	TTC	GTC		GTC AC V T



AGG 3456 GAG 510 ညည 564 CCT 3618 AGG 3672 3726 GGA 3780 CTA 3834 TAT 臼 AGC GGT ACT CCC GAA TATACC GCG C S ATG CGG CAG CTC CAA TGG TCA CGT Ř Σ GAG CGC GTG3447 3501 3555 CTC CCC AGA 3609 CGT TCT 3825 3663 3717 3771 闰 区 AGG ACC TCCAGC GTC GCT CGA ACT H 召 CGC CGC ACC GAC AGA GTT CTG GGA 召 α ATC CTC AGG 3438 3492 CCC CCA CTCATT 546 3600 TCT 3654 3708 3816 3762 3 GAC CCC TCTCCC ACA SCG GAA Ω Д GGT GGT CGC TCT AAG CCA GCA AAG Ç Ü CTT TCA CCT3429 3483 CCT AGG CAG TTTCCA 3537 3645 3699 3591 3753 3807 П S GCA CCC ACC 9999 999 CCT CCC GCT K K ACA CGG CAG GCC CGC CTG AAC CCA H K 3636 CTT TCC TCC CCG GCG 3420 3474 3528 GCA CAG GCC CCT GGG AGT TTT 3582 3690 GGT AGA 3744 GTG ACT 3798 CCG CTC Ø TGA GGA GAT GCG GAC CCC Ø Ø CTG CTG GAG GCG GCG CAG GTC CGG CAG ACC CCA GAG TTT TGA AGG 3465 GCA TCC 3411 CTG GGT 団 3519 3573 3735 3789 3627 3681 Ø Ø ø \mathbf{TGT} AGA H Ø >



3888 GGC ACA AAG	3942 C GAG CTT	3996 G GTG TGA	4050 T TCC CAT	4104 G CTT AGA	4158 T GCT TTA	
3879 CTG GCG TTT GG(3933 GTC CCC TGC CCC	3987 AGC TGG TTG TGG	4041 GA GGA AGG GGT	4095 ACG TGT TTG GTG	4149 TGA ATT AAA AAT	
3870 TTG GGA GTT C	3924 GAC CAG	3978 GTG GGG	4032 TGA AAA GGA	4086 ATT CTC A	4140 GGG GGC	
TTG	CTA	AGT	CAG		TCC	_
3861 r cta ccc	3915 C TCA GTG	3969 3 AAA CAA	4023 TGG GCC W A	4077 CTG AGG GGA ACA	4131 GGC AGG CCC	A NAA A 3'
CTT	AGC	TTG	99 9			AAA
3852 GAT TTC AAT	3906 CCT GTT TGG	3960 GGT TAT TTA	4005 4014 4023 GGG GTG TGG GGT CCA GGC TGG GCC G V W G P G W A	4068 GCT CTG GGG	4122 GGG GCG TTG	4167 CCA AAA AAA AAA AAA
)5 G T(₩			57 VA A2
3843	3897 CCT CTG	3951 TTT TGG		4059 GGG GAG	4113 CTG CCC	
TTT	TCC	TGT	GTG	909	GAC	TTT

FIGURE 1K

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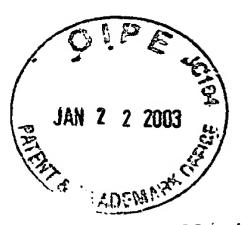
NIPPH-2 NIPPH-1 NIPPH-2 NIPPH-2 NIPPH-2 NIPPH-1 NIPPH-1 NIPPH-1 NIPPH-2 NTPPH-1 NIPPH-2 NIPPH-1 NIPPH-2 NIPPH-1 NIPPH-2 NIPPH-2 NIPPH-1 NIPPH-1 NIPPH-2 NIPPH-1 S N Z M 口 召 A ß T R × 又 \mathbf{R} Д J G E G C S 团 H H Ö Σ S W 团 Ø Q 24 ρ 됴 工 出 Q 区 X A. 口 A A K D > E Ø Ø \Box 团 Д Д S S Д E K Д C C H H > 区 K C H G K H H X D X Ø О Ø Q 口 G 口 ı E Q Ŋ D 团 S G Σ \mathcal{O} \mathcal{O} 区 Ы S G N K Z K H 5 Д >区 \mathbf{Z} Д Д 二 U H X 区 > 闰 Д Д П S A. S ſτι abla工 D 伍 K H G 曰 S \circ S S K M 5 Ω 3 K H H Д G Ø G > O Д H H 臼 S [I4 Ø Ø Д Д Д H \mathbf{Z} 召 Ø K Q 田 \mathbf{Z} Z K E Д M p ט Д 回 团 C X Z S M ſΉ 3 K 压 \mathcal{O} S K D 工 3 Ø H 3 3 О 凶 Q. S K æ > Д Б Ø A H \vdash S H F 召 召 [Li ひ D S K \mathbf{Z} K X × F E 区 \mathcal{O} L 2 田 H S P C K -Д 3 G 3 K > > K 2 О 区 EH Ŀ Ŏ S × 工 Ę K 出 E 回 Ø 团 Ø K 2 H G G Ø Ŋ × 曰 田 S 2 Z E α >Z S 闰 S Н H Z Z Д T Ø \gt E-H A Œ Ø A. S A 2 Ω S 口 C Q M Q × 0 × × K \mathbf{C} C H G K 2 Б 口 Д C Ŏ 0 Ø 3 Д K Z Д Σ Σ 出 0 \mathcal{O} Ø E 国 召 K K Д O E X A Ŏ H Д Д 闰 团 K 9 G Ę Q Q F Ы 口 \mathbf{C} H Ω Q 24 떠 Д C <u>ත</u> F > 区 \Box SCA 00 P P K H GPARV DRV L RG L RKG Y NN 1 Н Ø S 田 0 A 团 Ø S ය ය X P G F W C L N R G F W C L N R O P RARA S Ω Ø TKVKE 回 四 IRAOMDGF LAAIRFYYG LDAIRFYYG \mathcal{O} SK CD TKAWV AR PSGOPLLG PGGAPASG C Ę K Ω Ø GAWGPW SPWSPW VYĿ H Ø SR T 团 Н Ŋ 出 Ω Ω L K S A E R R N P P P T R P R E MNP Д H A H H KH AN S 召 S 218 233 117 113 150 153 183 193 296 313 257 273 336 353 33 7



Docket No.: PF-0420-2 DIV Inventors: Magna et al.

Title: HUMAN NUCLEOTIDE PYROPHOSPHOHYDROLASE-2 Serial No.: 09/757,716

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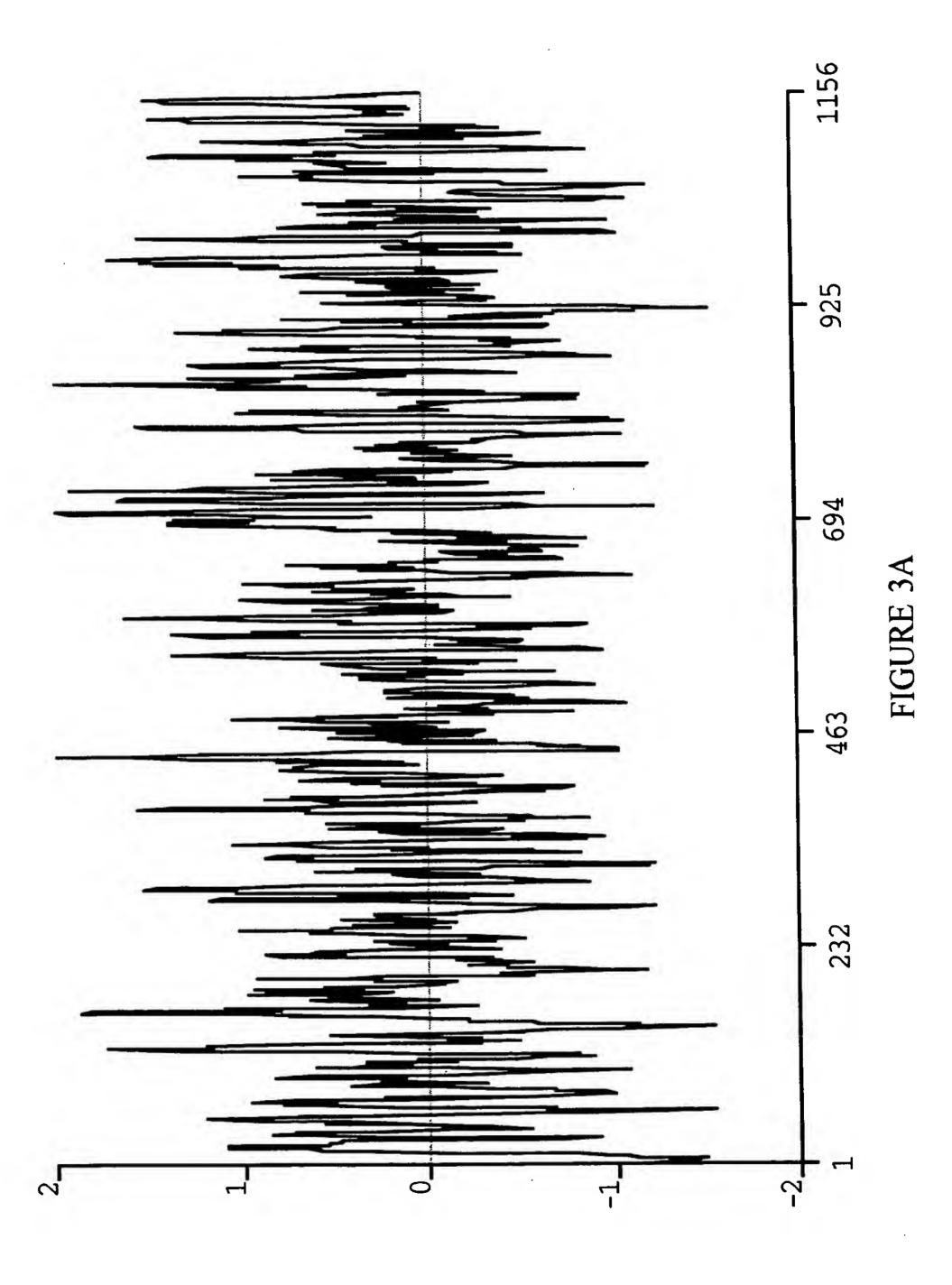
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